

Appendix Test Data

Report No.:	18220WC20042701	Test Sample No.:	1-2-2
Start Test Date:	2022.3.4	Finish Test Date:	2022.3.11
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3℃	Relative Humidity:	55.6 %
Pressure:	1012 hPa		

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.948	2401.538	2402.486	---	PASS
		2441	0.939	2440.538	2441.477	---	PASS
		2480	0.942	2479.535	2480.477	---	PASS
2DH5	Ant1	2402	1.278	2401.370	2402.648	---	PASS
		2441	1.332	2440.334	2441.666	---	PASS
		2480	1.320	2479.337	2480.657	---	PASS
3DH5	Ant1	2402	1.263	2401.358	2402.621	---	PASS
		2441	1.272	2440.352	2441.624	---	PASS
		2480	1.296	2479.346	2480.642	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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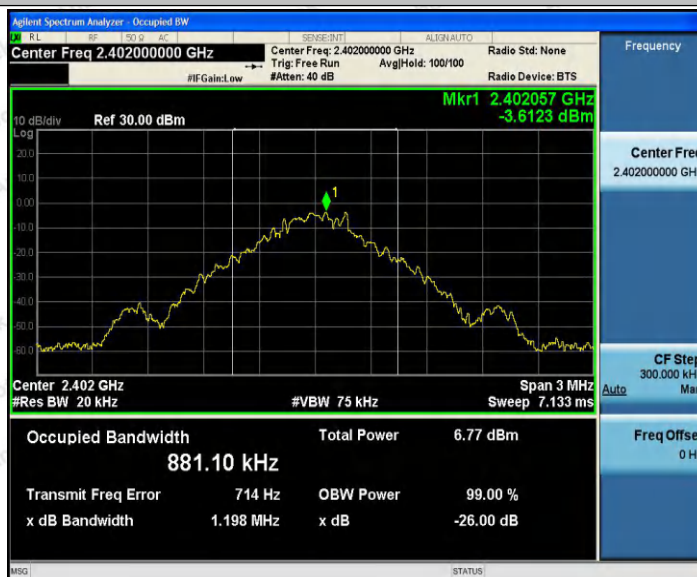
Appendix B: Occupied Channel Bandwidth

Test Result

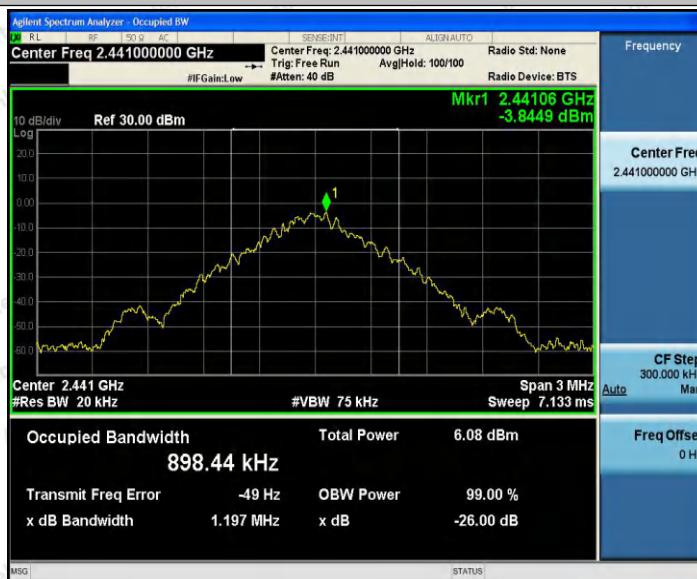
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.88110	2401.56 0	2402.441	---	PASS
		2441	0.89844	2440.55 1	2441.449	---	PASS
		2480	0.88562	2479.55 9	2480.444	---	PASS
2DH5	Ant1	2402	1.1976	2401.40 0	2402.597	---	PASS
		2441	1.1924	2440.40 2	2441.595	---	PASS
		2480	1.1905	2479.40 3	2480.594	---	PASS
3DH5	Ant1	2402	1.2047	2401.38 8	2402.592	---	PASS
		2441	1.2090	2440.38 5	2441.594	---	PASS
		2480	1.2043	2479.38 8	2480.592	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

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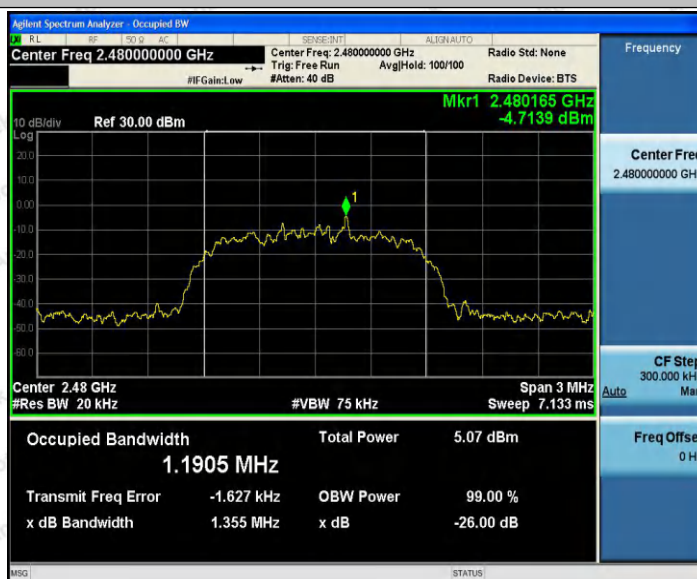
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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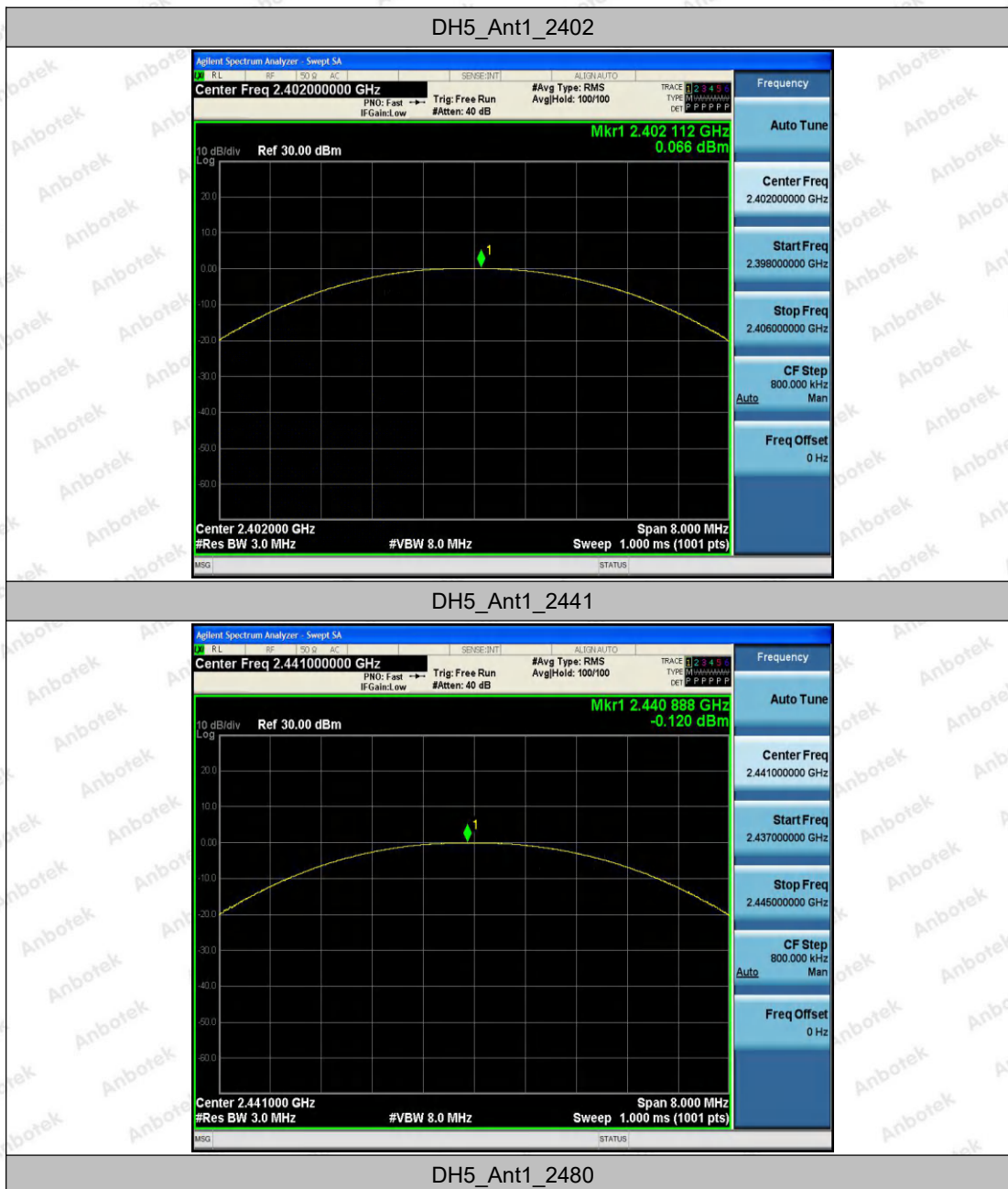


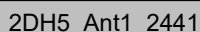
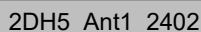
Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.07	≤20.97	PASS
		2441	-0.12	≤20.97	PASS
		2480	0.64	≤20.97	PASS
2DH5	Ant1	2402	-0.6	≤20.97	PASS
		2441	-0.77	≤20.97	PASS
		2480	-0.07	≤20.97	PASS
3DH5	Ant1	2402	-0.52	≤20.97	PASS
		2441	-0.74	≤20.97	PASS
		2480	0.02	≤20.97	PASS

Test Graphs





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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.864	≥ 0.632	PASS
2DH5	Ant1	Hop	1.288	≥ 0.888	PASS
3DH5	Ant1	Hop	0.956	≥ 0.864	PASS

Test Graphs

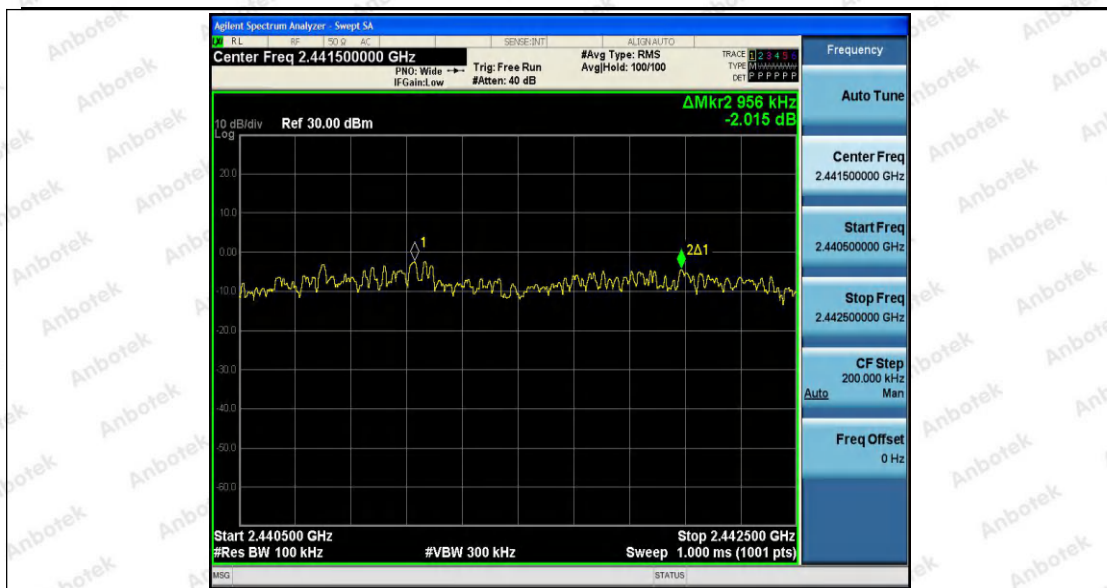


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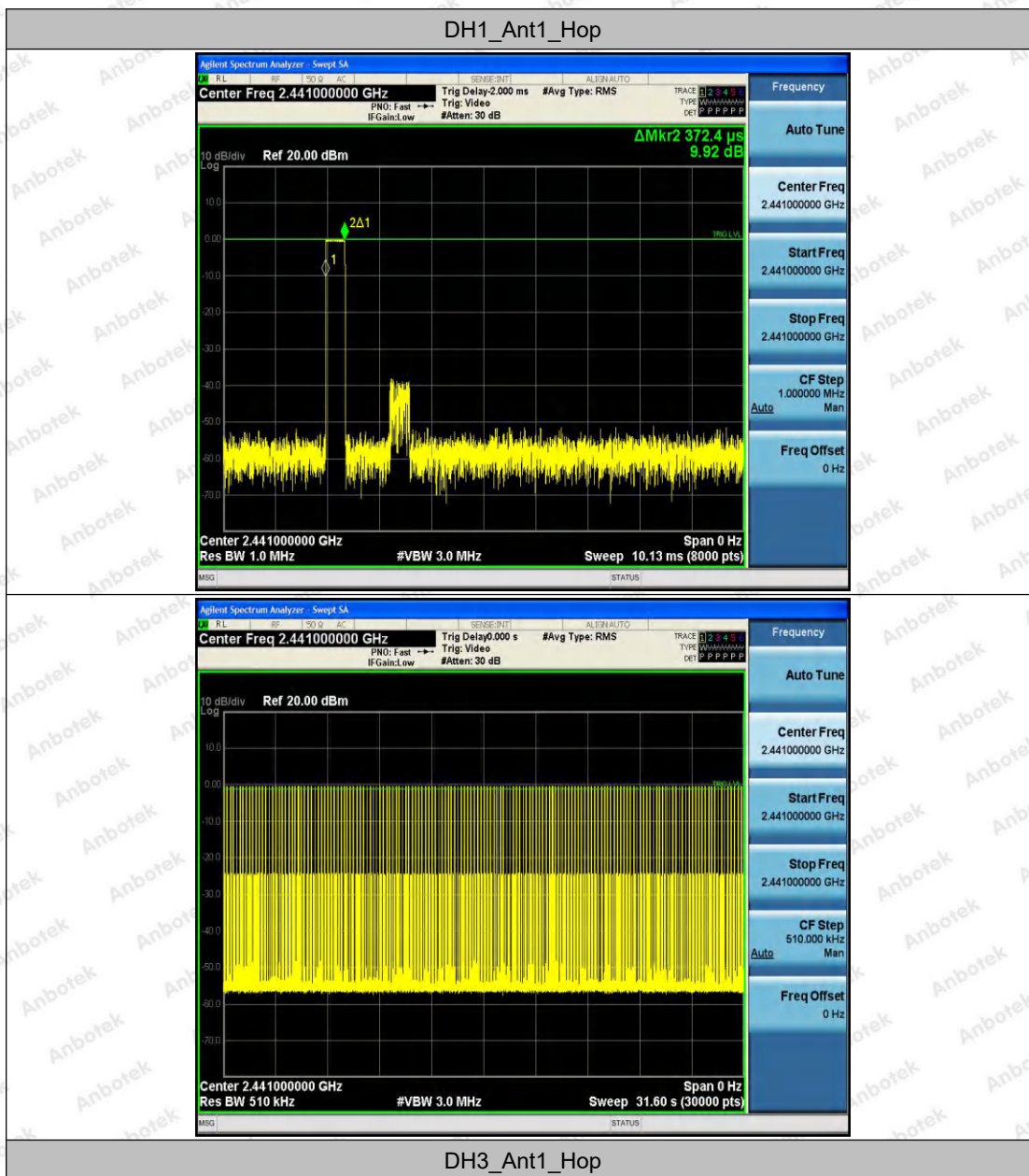
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Appendix E: Time of occupancy

Test Result

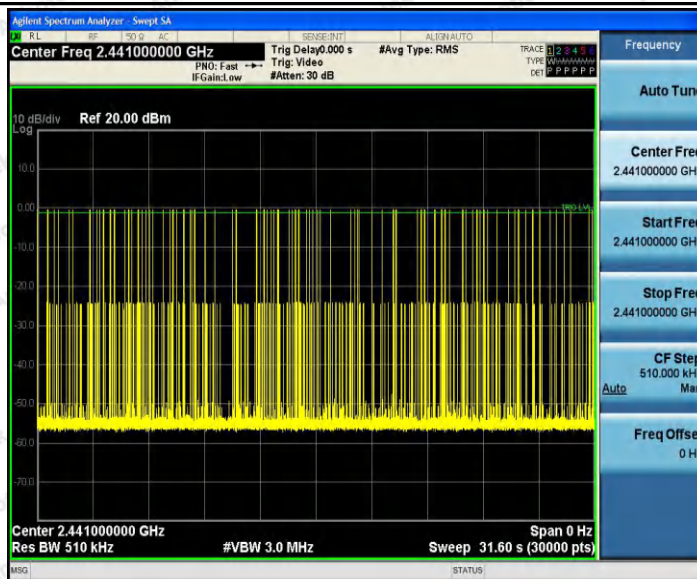
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	314	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	160	0.261	≤0.4	PASS
DH5	Ant1	Hop	2.88	106	0.305	≤0.4	PASS
2DH1	Ant1	Hop	0.38	314	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
2DH5	Ant1	Hop	2.88	107	0.308	≤0.4	PASS
3DH1	Ant1	Hop	0.38	314	0.12	≤0.4	PASS
3DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
3DH5	Ant1	Hop	2.88	109	0.314	≤0.4	PASS

Test Graphs

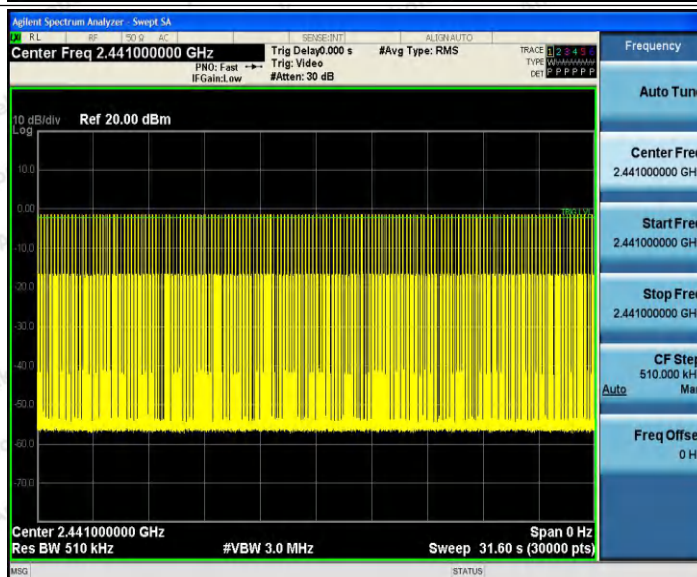
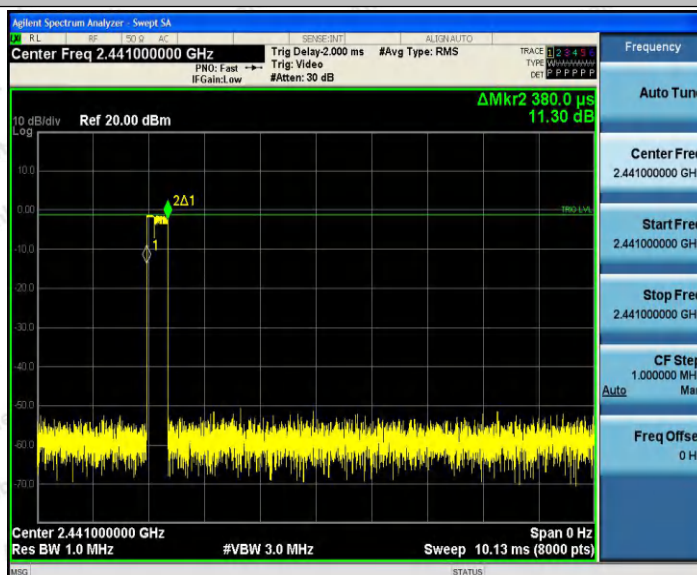




DH5_Ant1_Hop



2DH1_Ant1_Hop



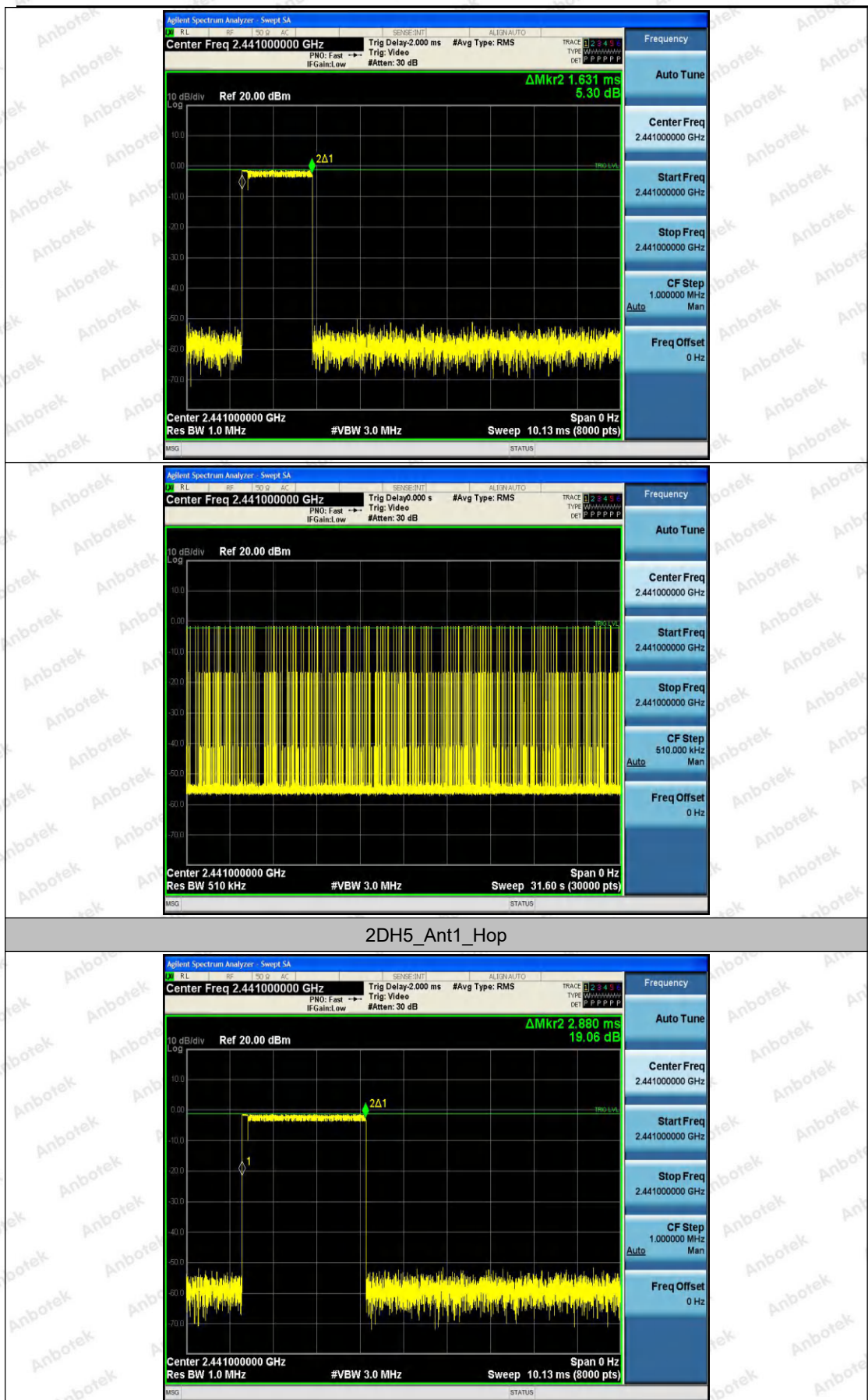
2DH3_Ant1_Hop

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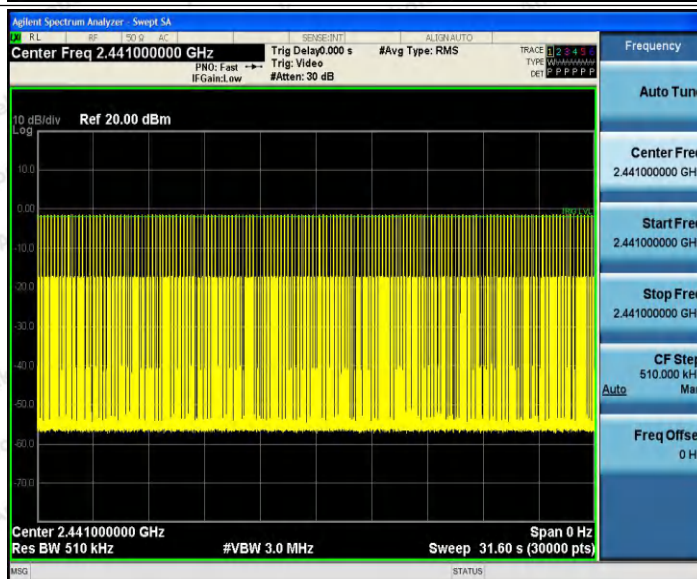
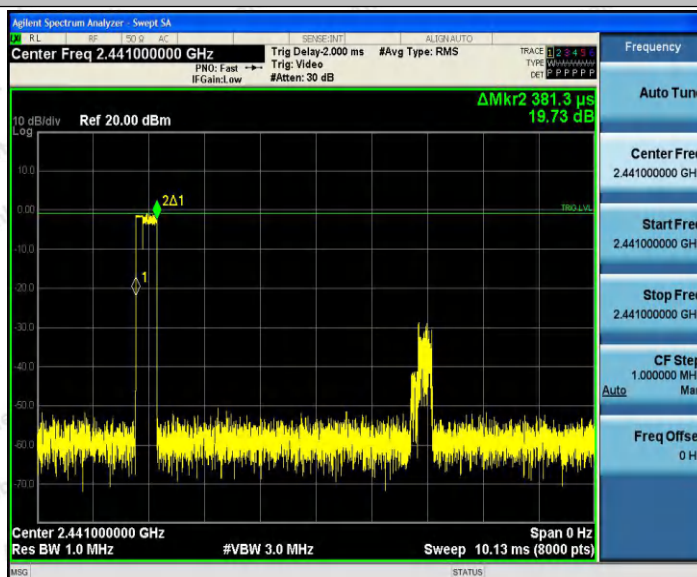
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2DH5_Ant1_Hop



3DH1_Ant1_Hop



3DH3_Ant1_Hop

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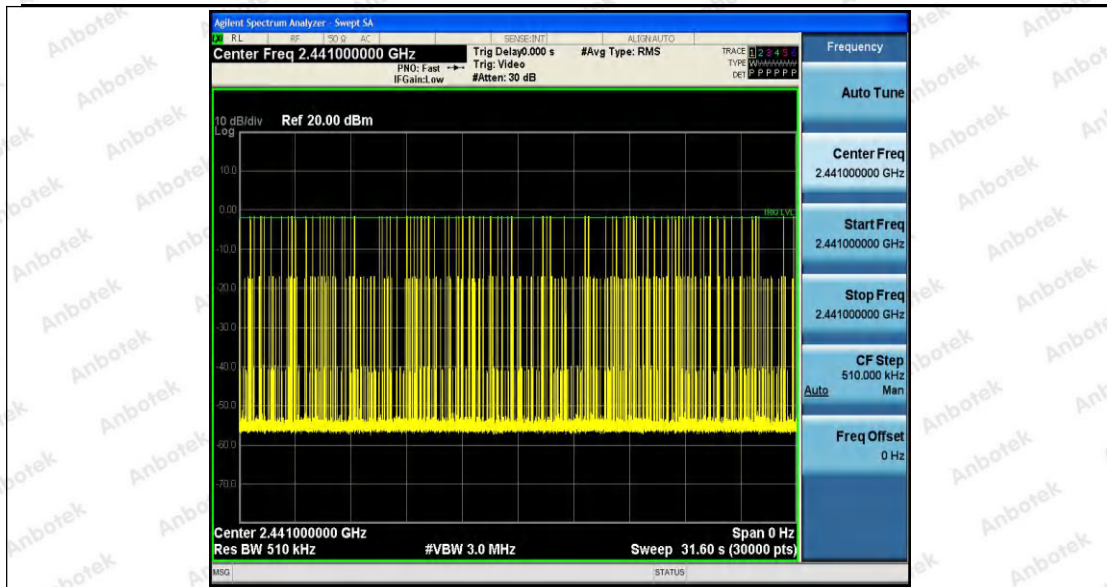


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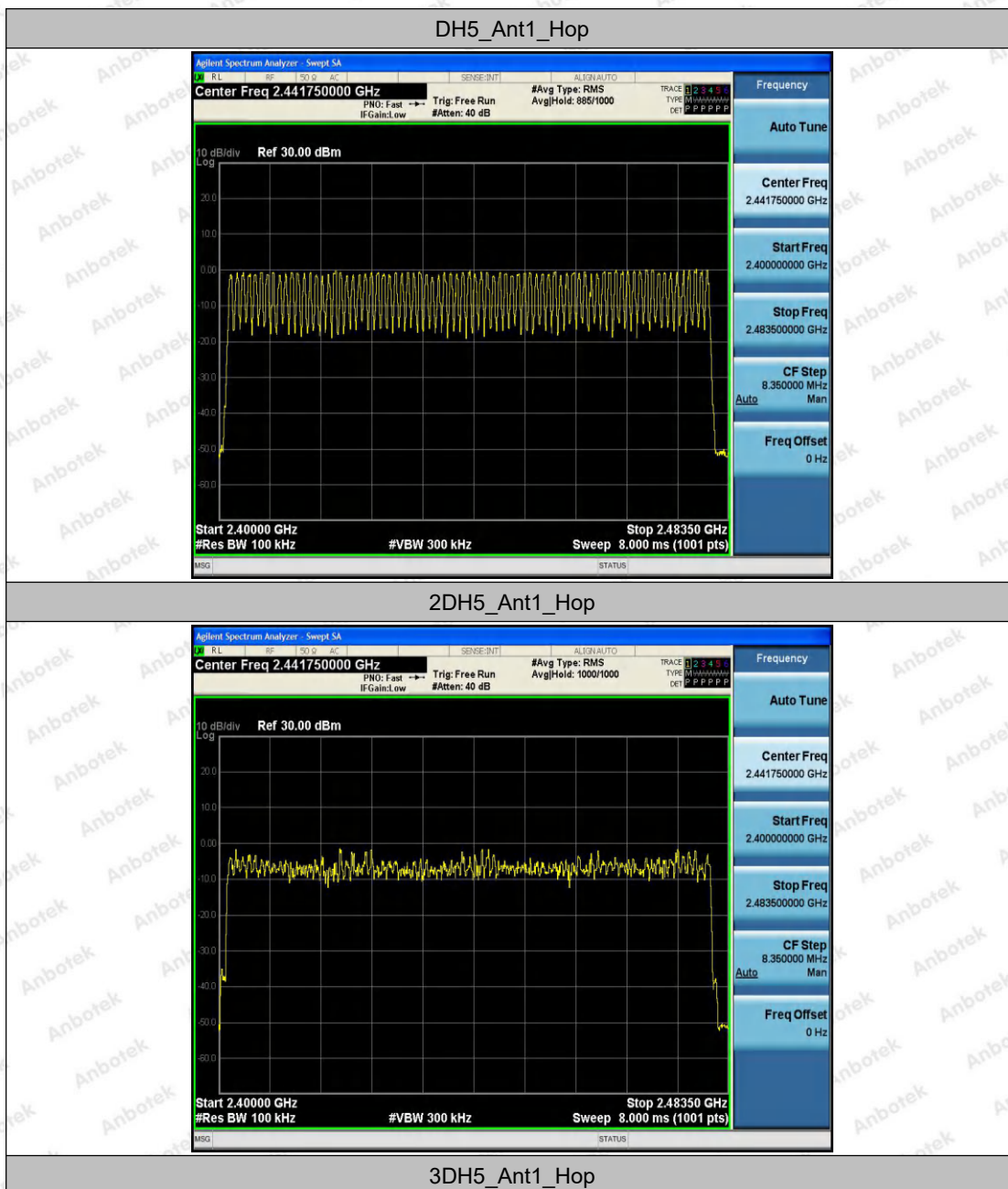
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Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs

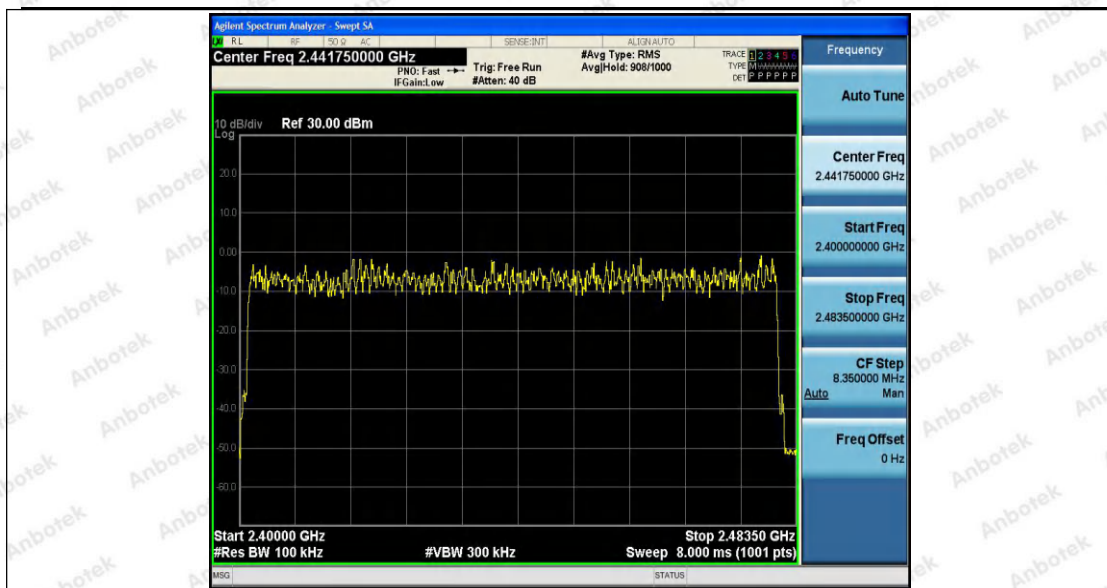


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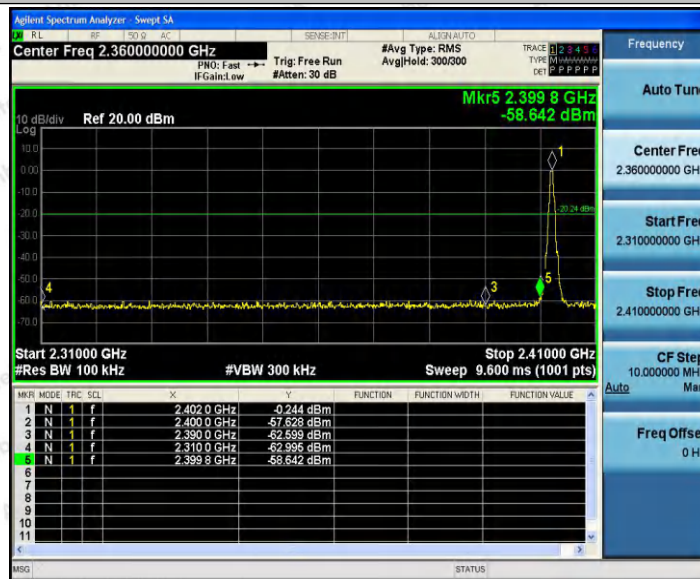
Appendix G: Band edge measurements

Test Result

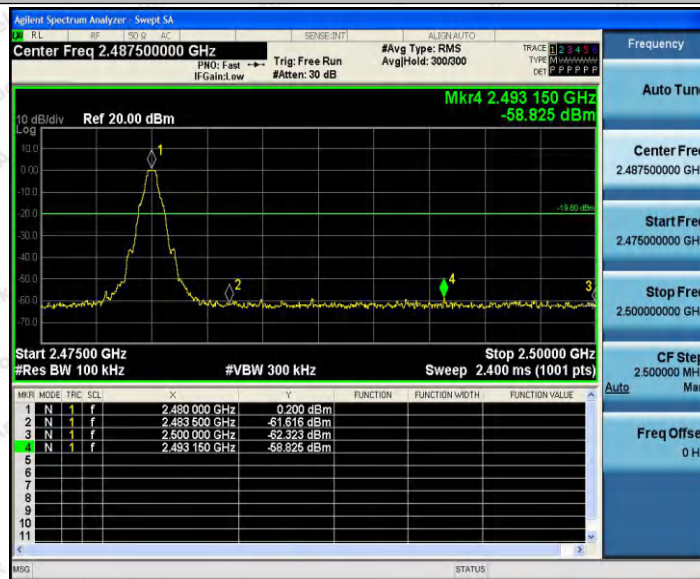
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.24	-58.64	≤ -20.24	PASS
		High	2480	0.20	-58.83	≤ -19.8	PASS
		Low	Hop	-0.79	-59.68	≤ -20.79	PASS
		High	Hop	0.12	-62.16	≤ -19.88	PASS
2DH5	Ant1	Low	2402	-1.49	-57.27	≤ -21.49	PASS
		High	2480	-0.85	-59.01	≤ -20.85	PASS
		Low	Hop	-2.86	-58.85	≤ -22.86	PASS
		High	Hop	-4.30	-63.22	≤ -24.3	PASS
3DH5	Ant1	Low	2402	-1.66	-56.72	≤ -21.66	PASS
		High	2480	-1.00	-59.41	≤ -21	PASS
		Low	Hop	-4.36	-59.68	≤ -24.36	PASS
		High	Hop	-2.02	-61.33	≤ -22.02	PASS

Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop

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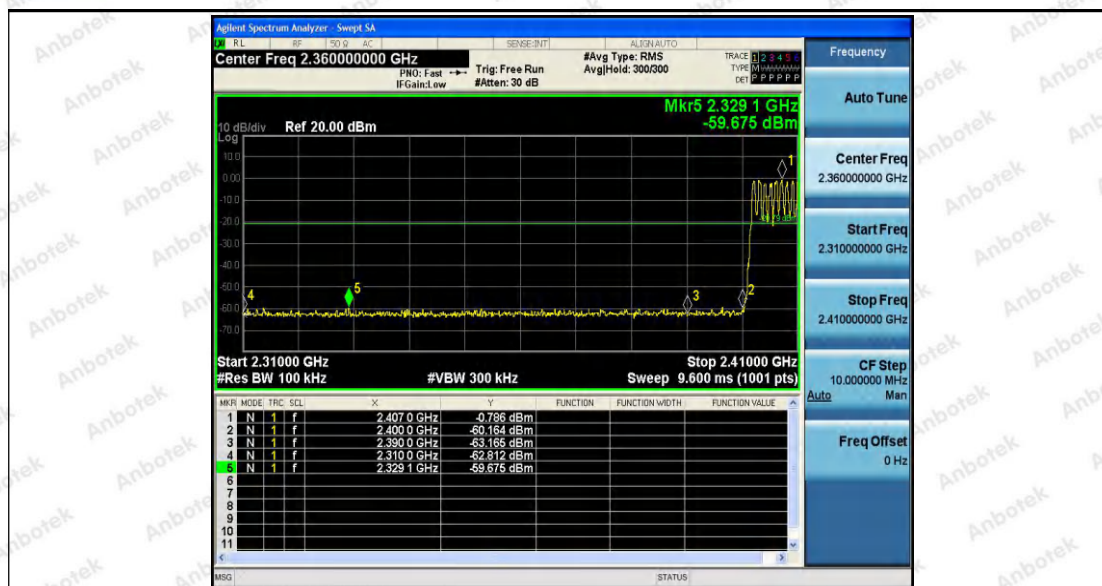
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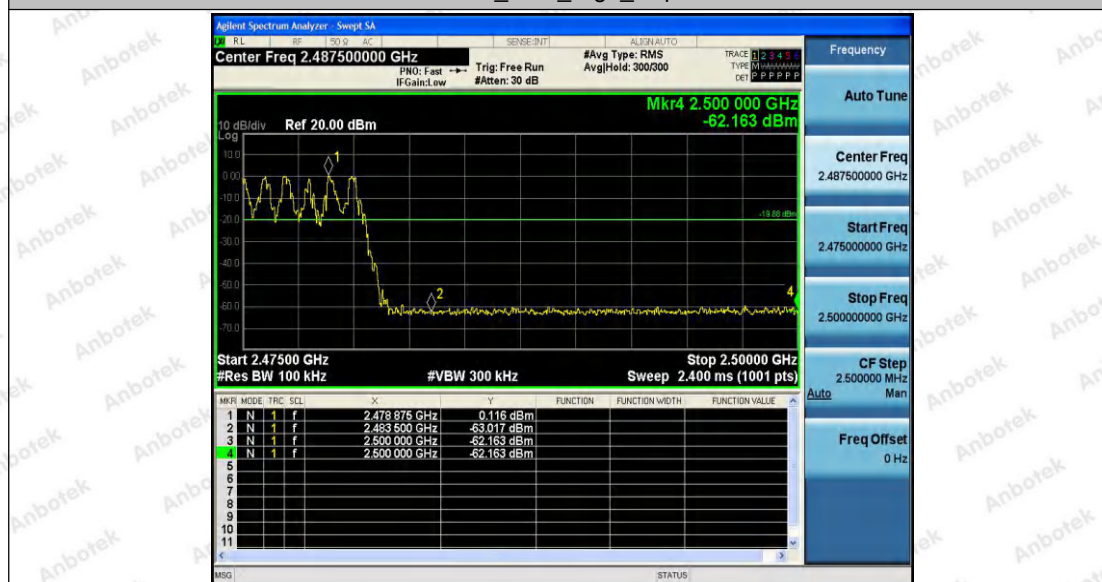
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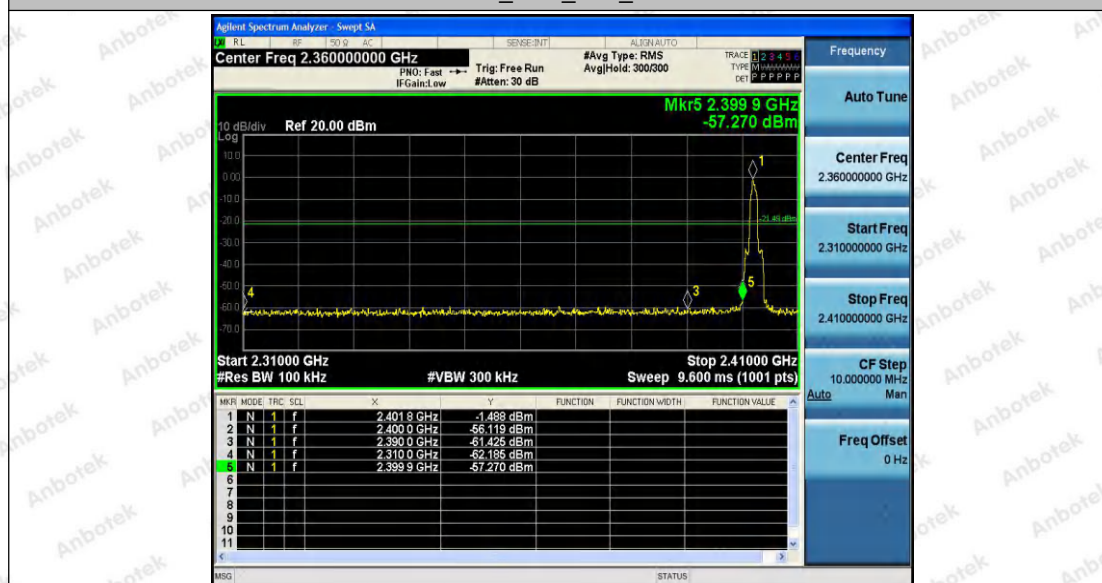
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DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



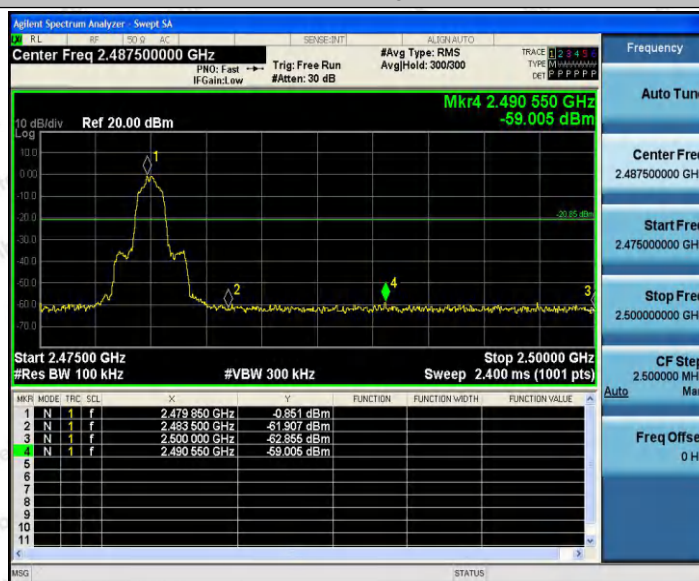
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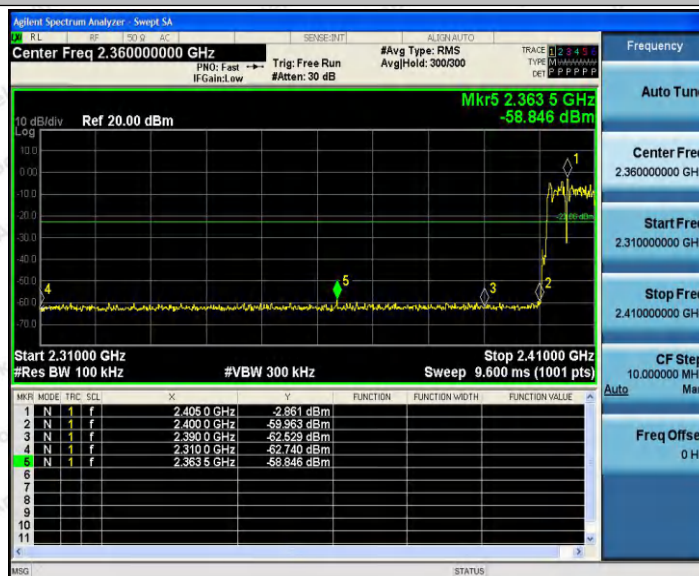
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



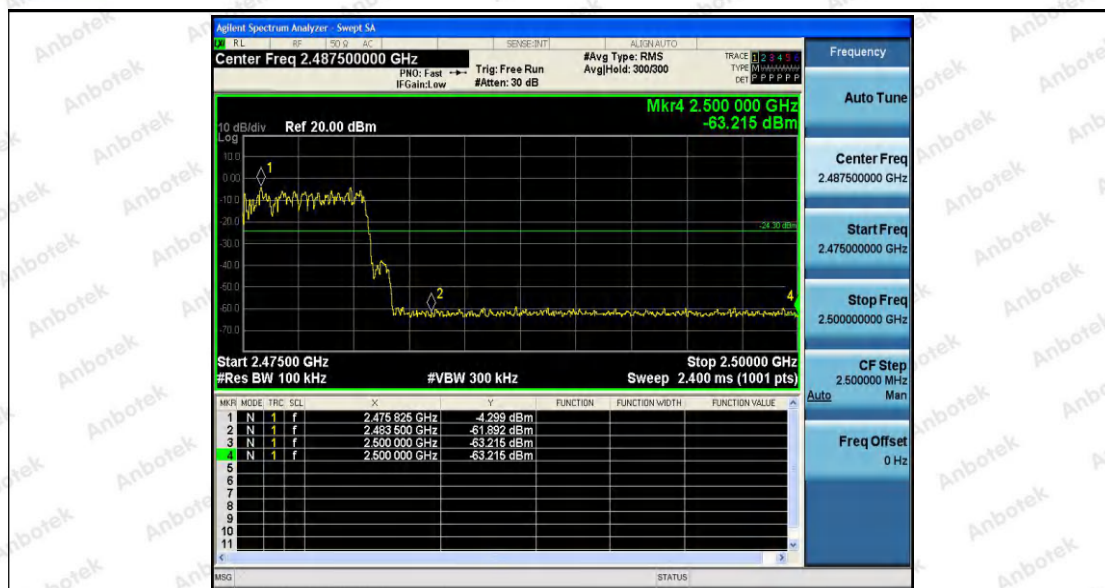
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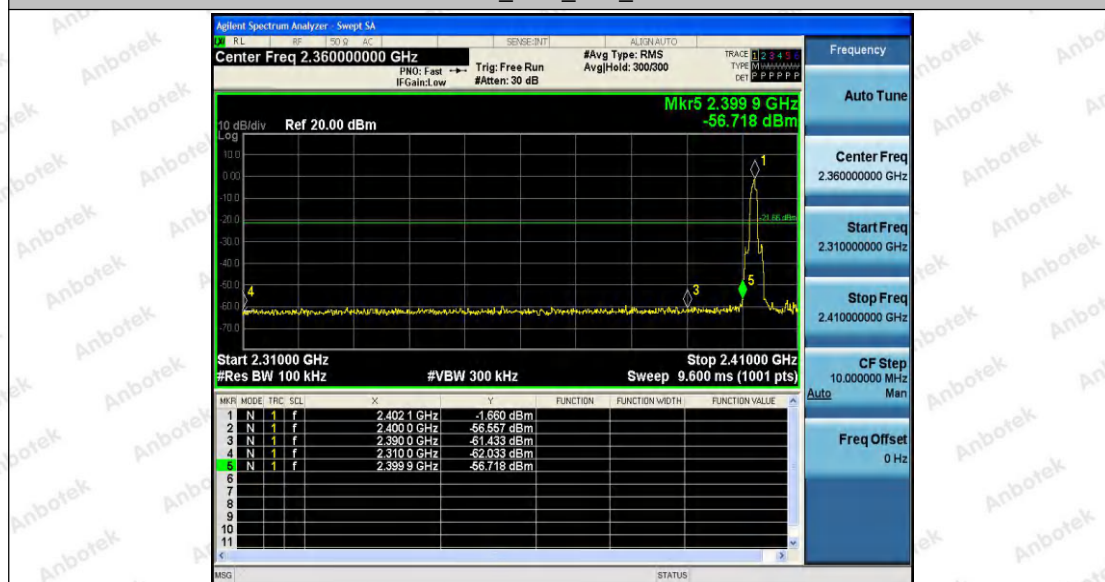
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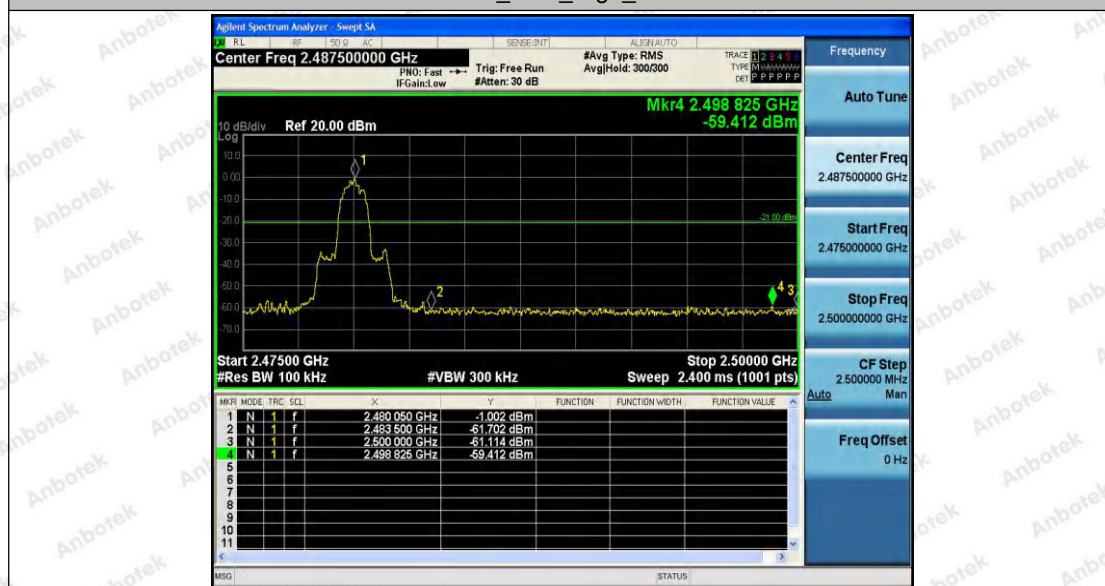
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



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Appendix H: Conducted Spurious Emission

Test Result

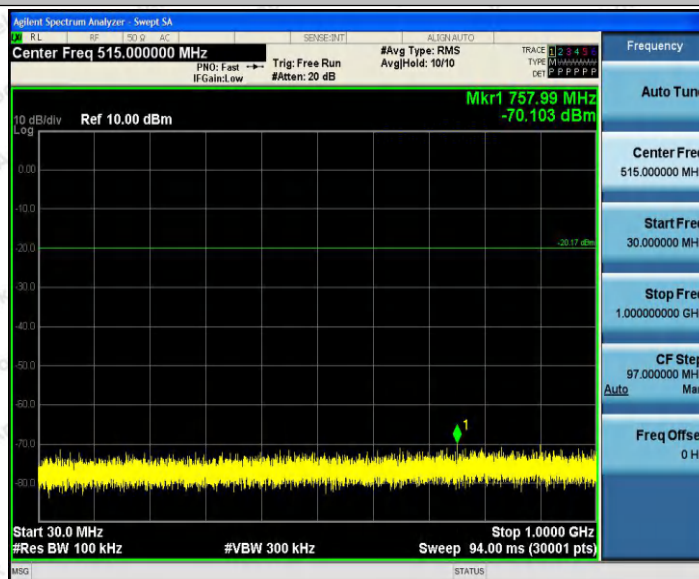
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.17	-0.17	---	PASS
			30~1000	-0.17	-70.1	≤-20.17	PASS
			1000~26500	-0.17	-55.07	≤-20.17	PASS
		2441	Reference	-0.64	-0.64	---	PASS
			30~1000	-0.64	-69.75	≤-20.64	PASS
			1000~26500	-0.64	-55.2	≤-20.64	PASS
		2480	Reference	-0.12	-0.12	---	PASS
			30~1000	-0.12	-70.22	≤-20.12	PASS
			1000~26500	-0.12	-54.65	≤-20.12	PASS
2DH5	Ant1	2402	Reference	-1.48	-1.48	---	PASS
			30~1000	-1.48	-70.48	≤-21.48	PASS
			1000~26500	-1.48	-55.57	≤-21.48	PASS
		2441	Reference	-2.25	-2.25	---	PASS
			30~1000	-2.25	-69.87	≤-22.25	PASS
			1000~26500	-2.25	-55.51	≤-22.25	PASS
		2480	Reference	-1.00	-1.00	---	PASS
			30~1000	-1.00	-69.98	≤-21	PASS
			1000~26500	-1.00	-55.78	≤-21	PASS
3DH5	Ant1	2402	Reference	-1.43	-1.43	---	PASS
			30~1000	-1.43	-70.41	≤-21.43	PASS
			1000~26500	-1.43	-54.44	≤-21.43	PASS
		2441	Reference	-1.78	-1.78	---	PASS
			30~1000	-1.78	-70.77	≤-21.78	PASS
			1000~26500	-1.78	-55.01	≤-21.78	PASS
		2480	Reference	-1.38	-1.38	---	PASS
			30~1000	-1.38	-69.82	≤-21.38	PASS
			1000~26500	-1.38	-55.17	≤-21.38	PASS

Test Graphs

DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500

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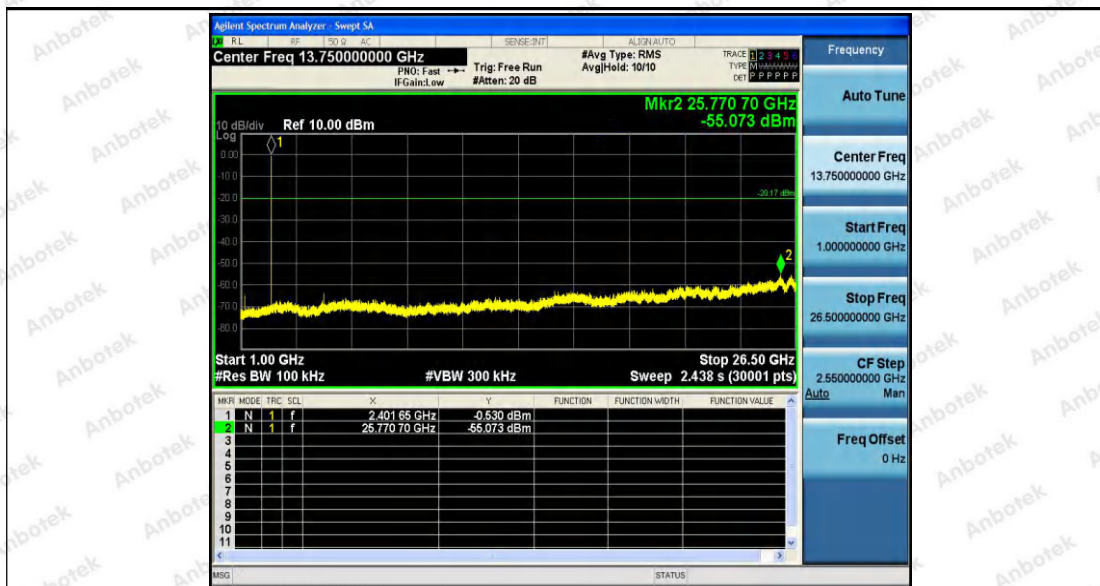
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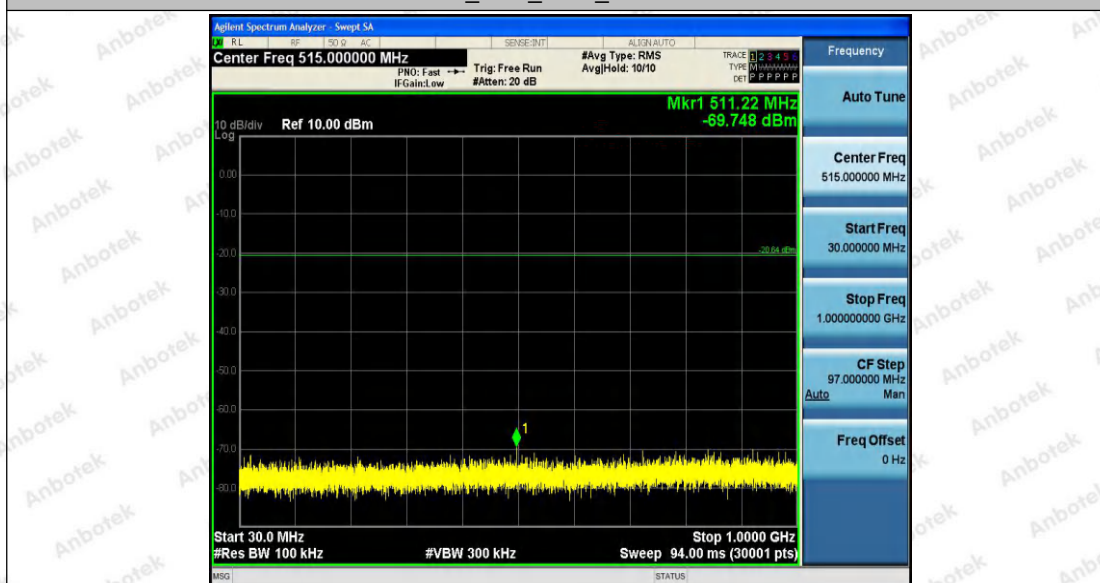
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



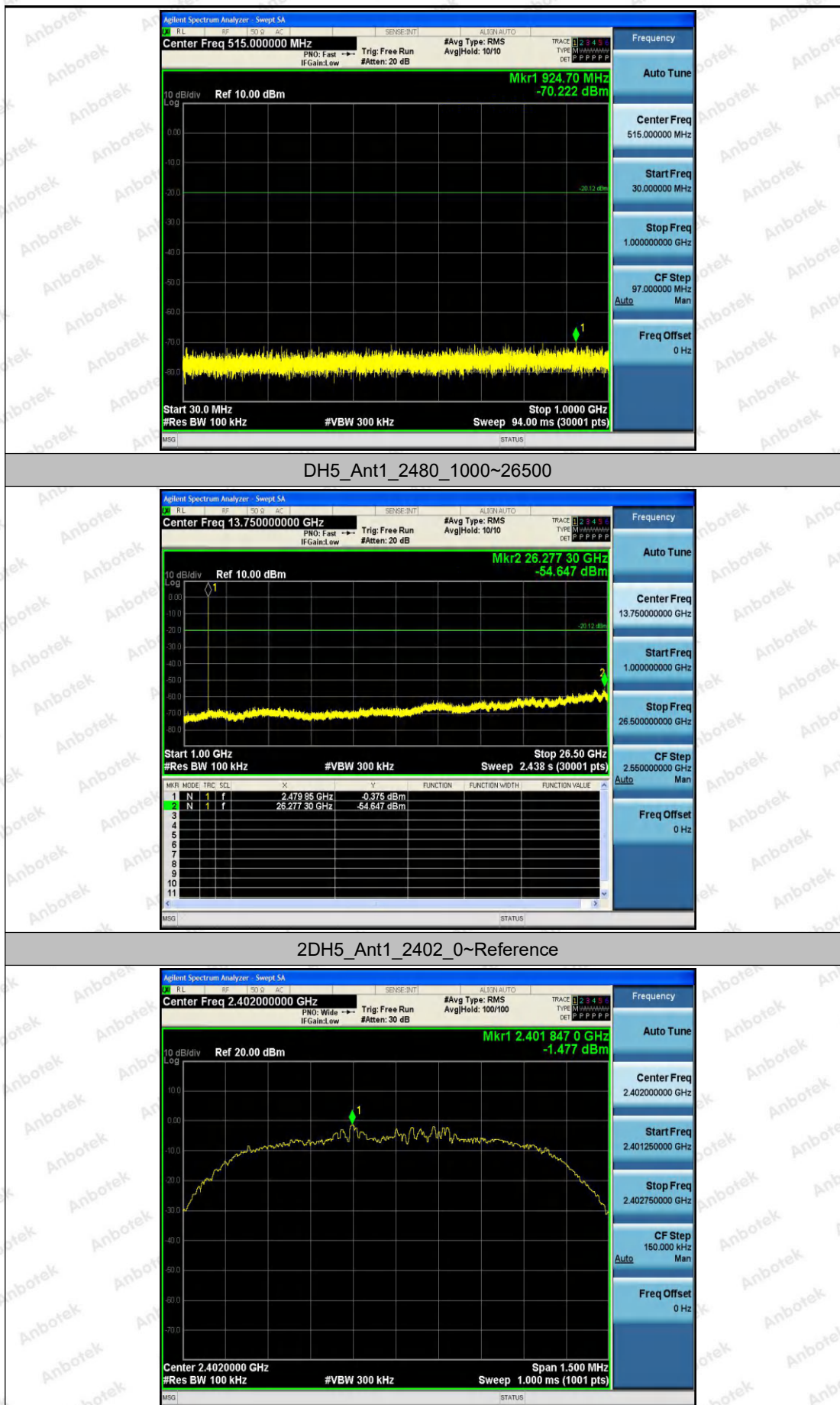
DH5_Ant1_2480_30~1000

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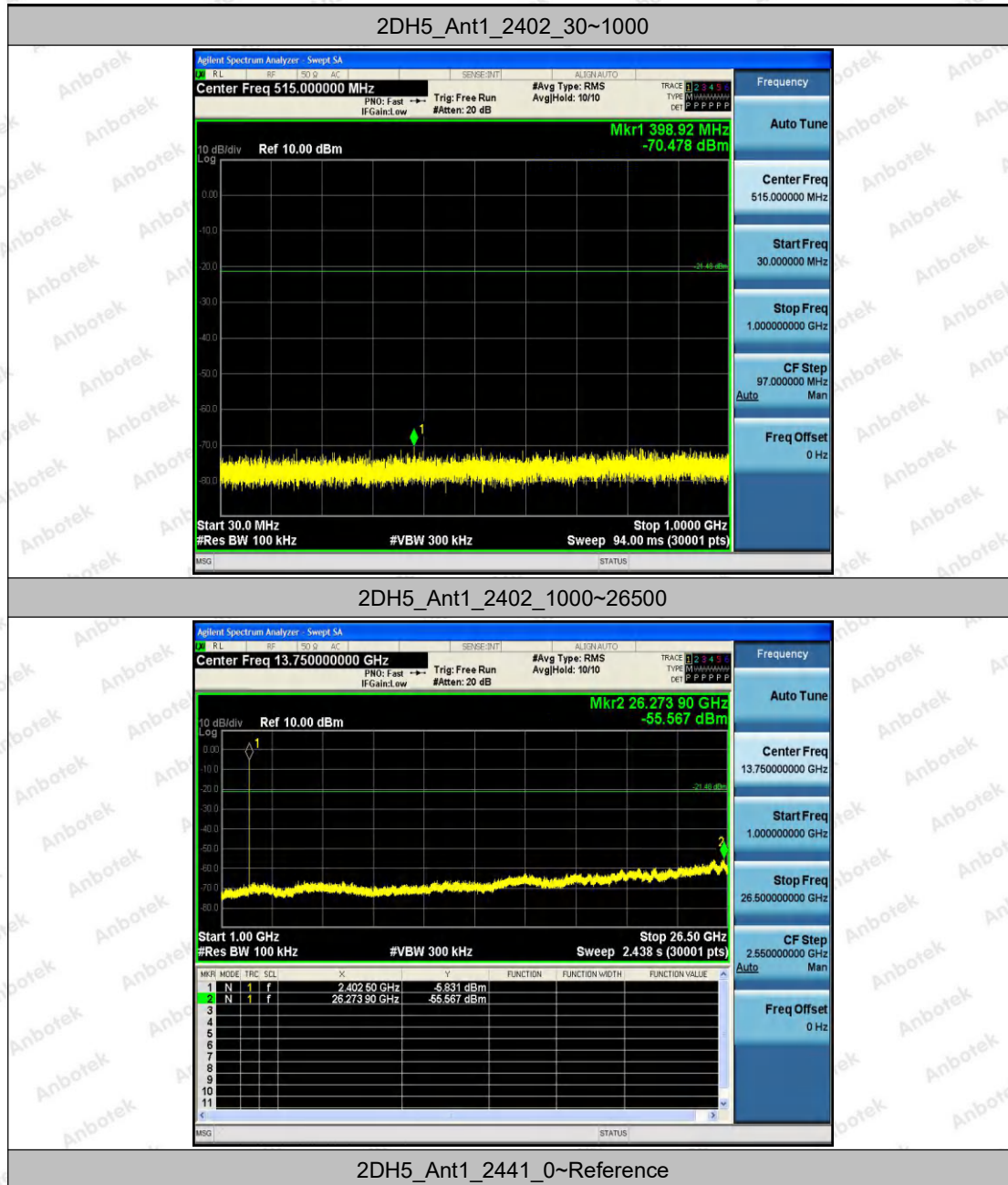


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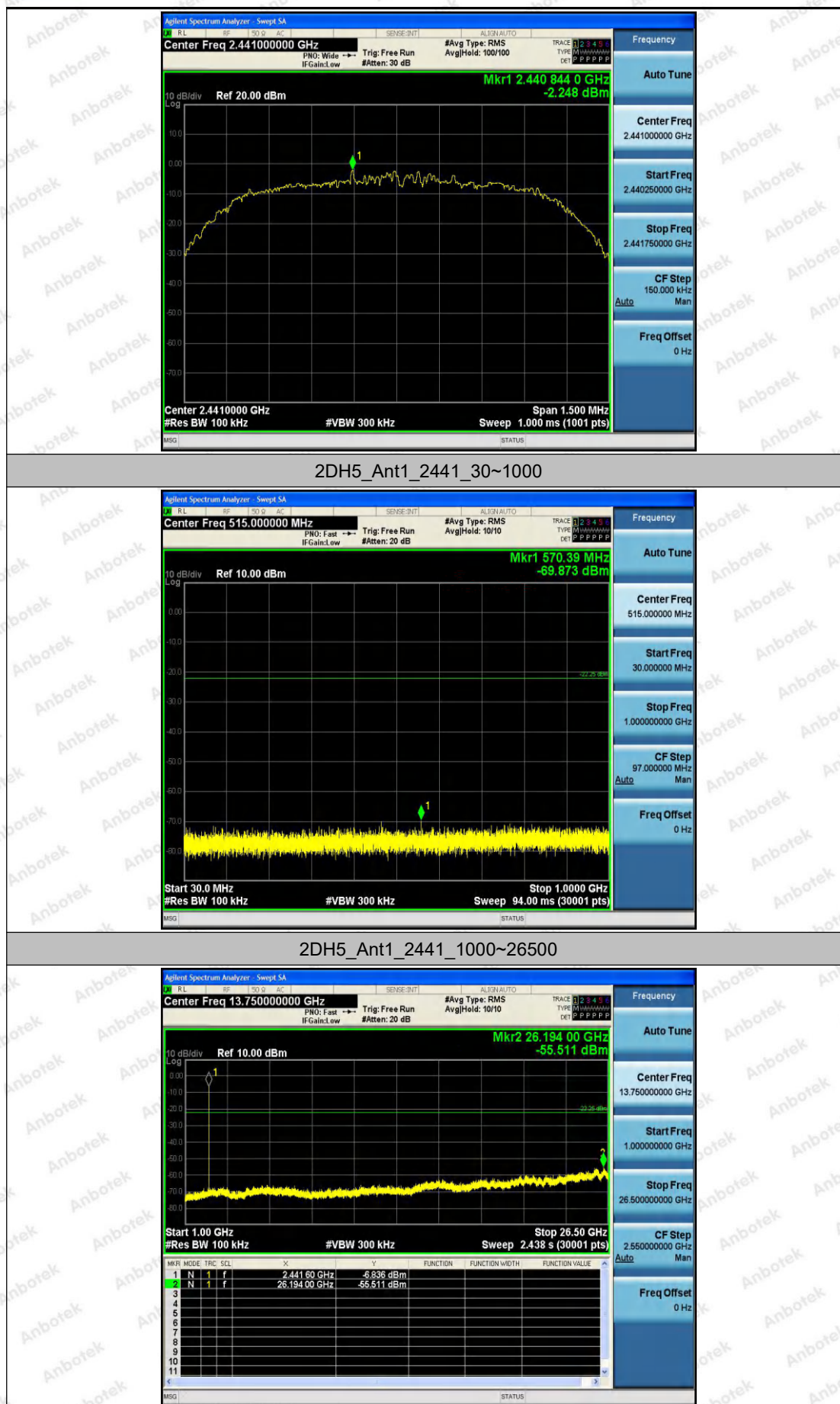


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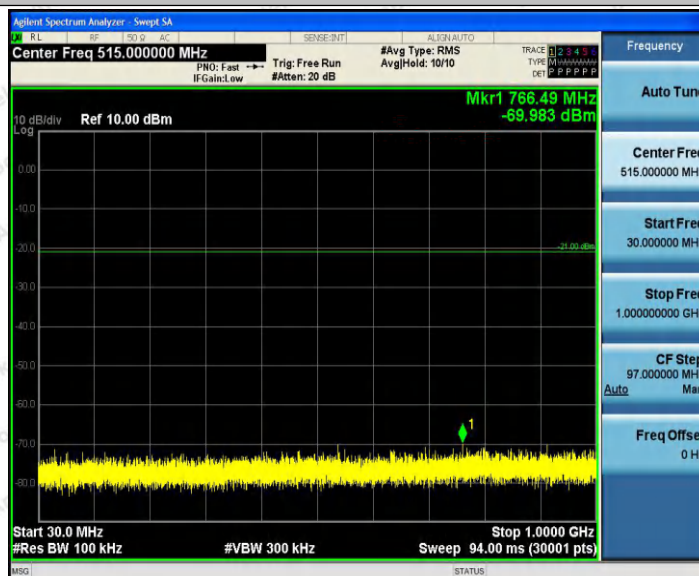
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



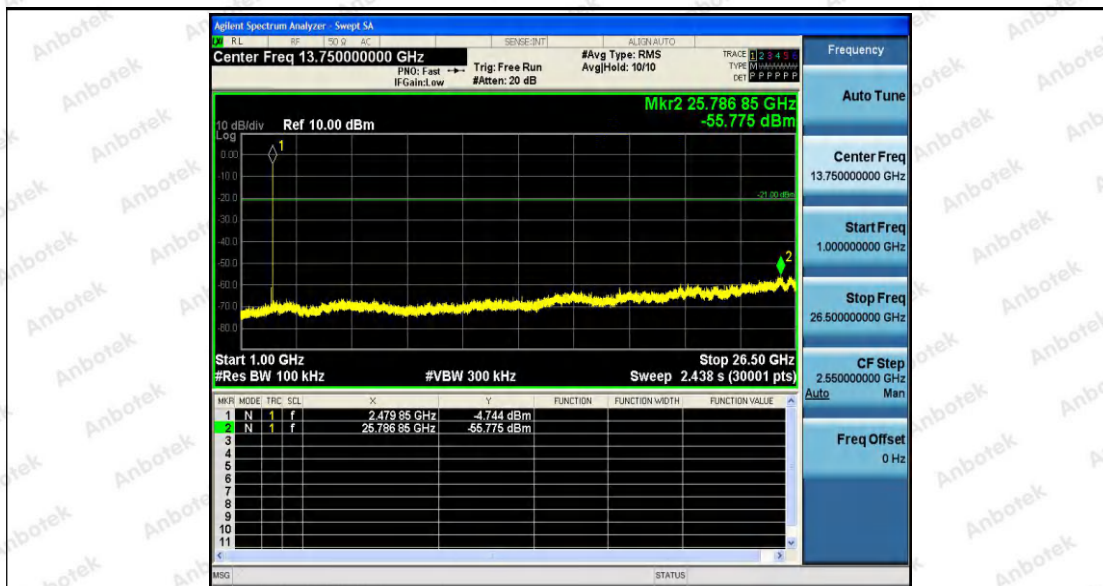
2DH5_Ant1_2480_1000~26500

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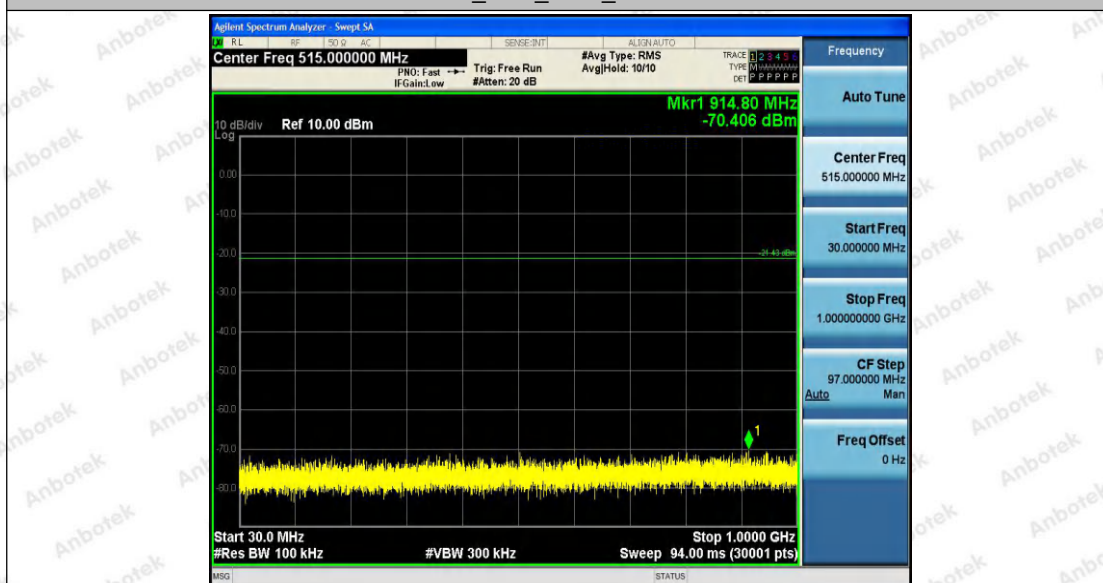
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



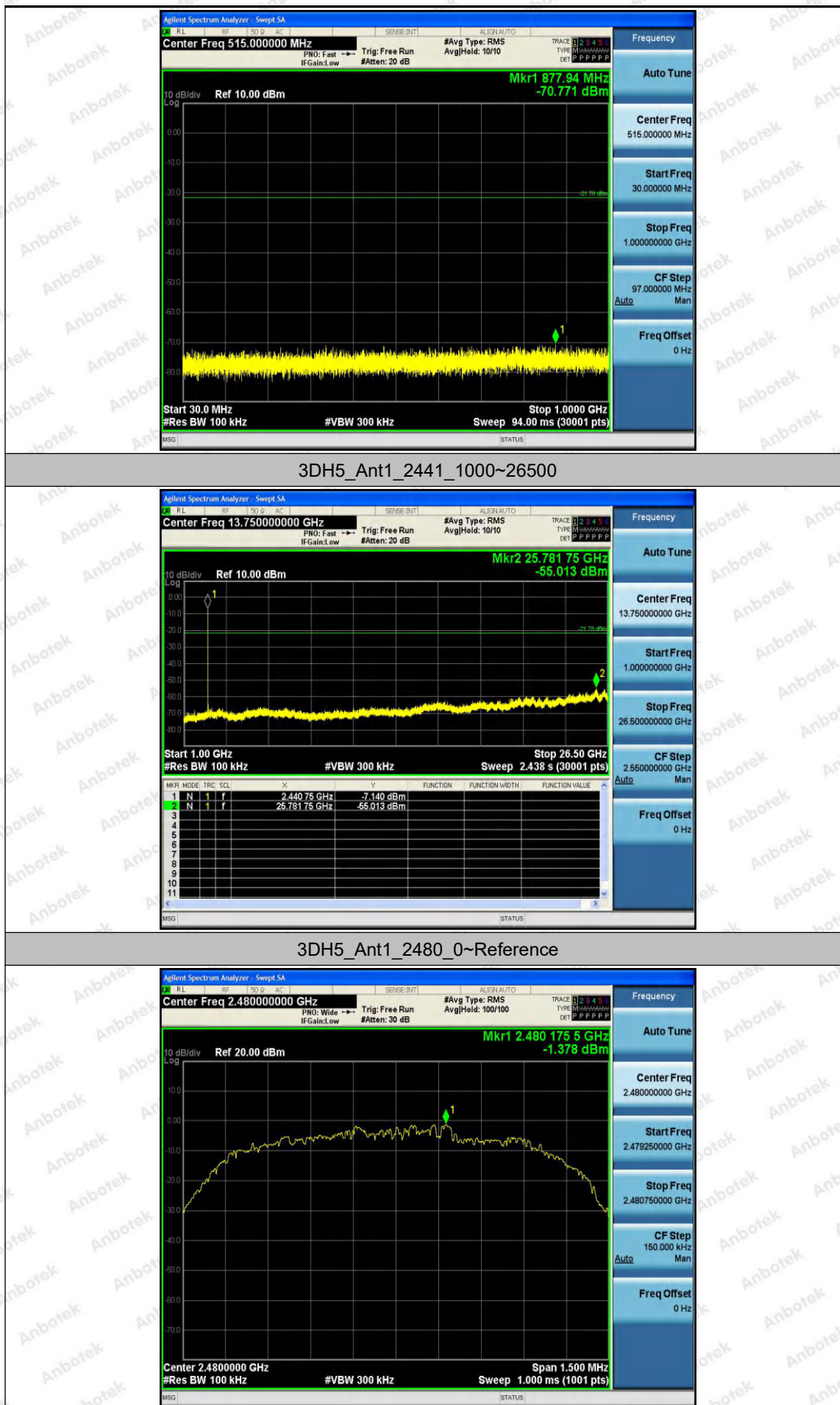
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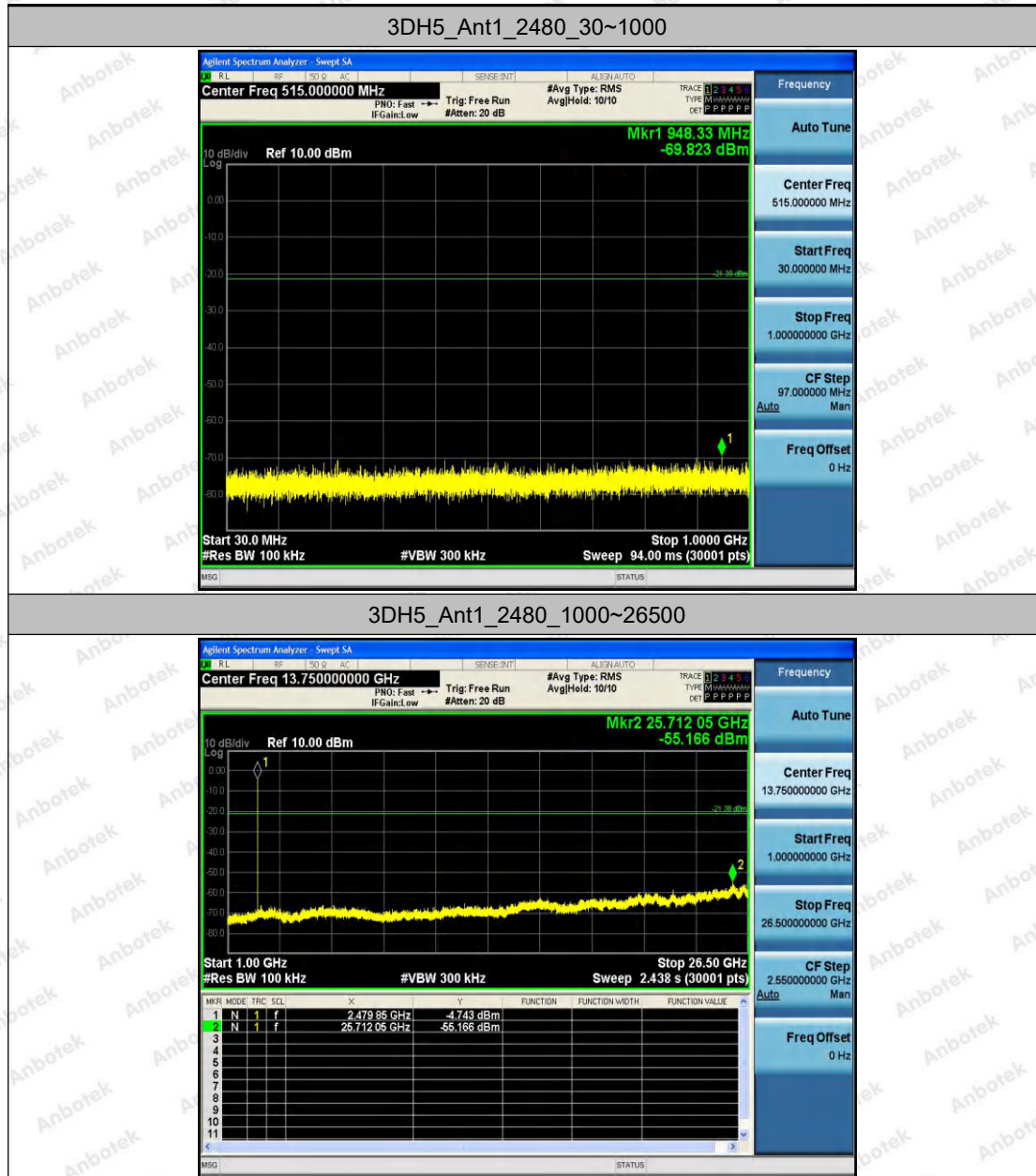


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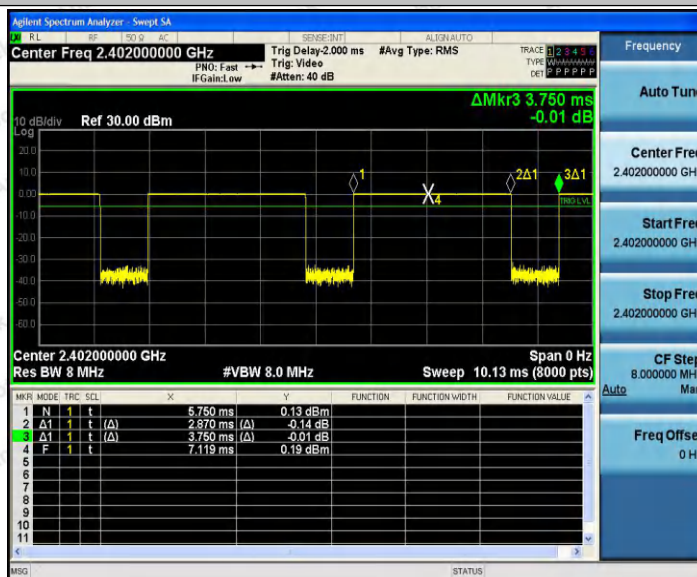
Appendix I: Duty Cycle

Test Result

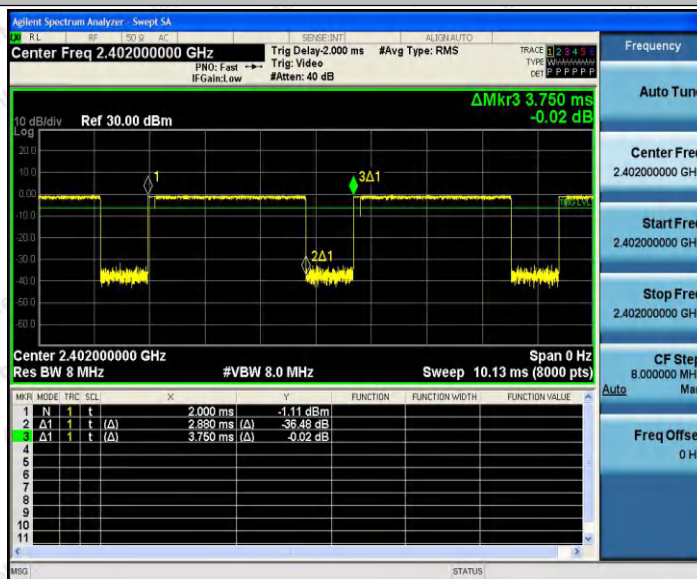
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.87	3.75	0.765 3	76.53	1.16	---	PASS
2DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS
3DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS

Test Graphs

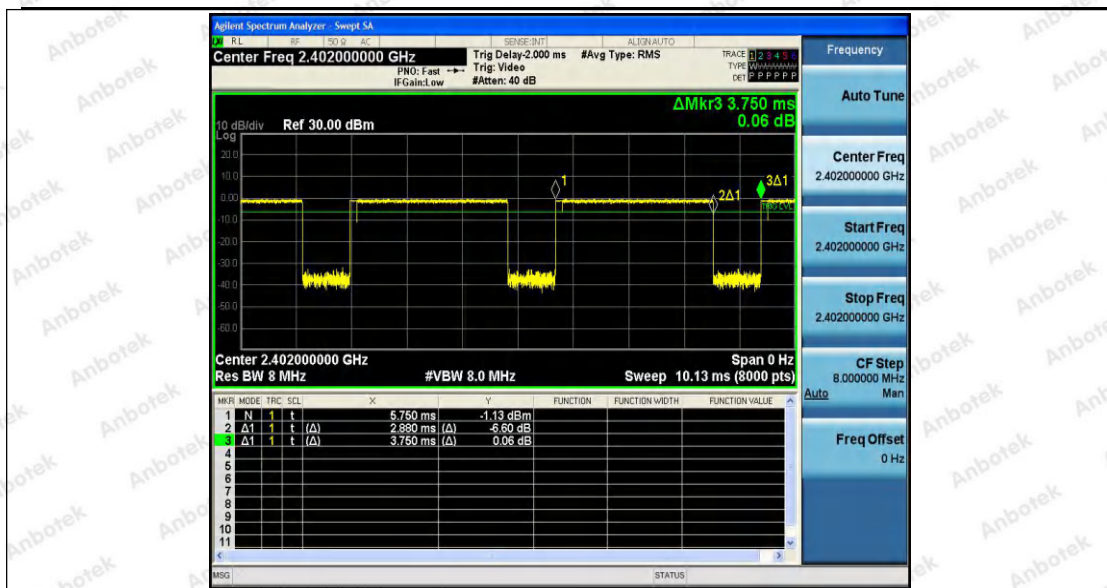
DH5_Ant1_2402



2DH5_Ant1_2402



3DH5_Ant1_2402



---End---